

12-X-180 1760 RPM

Impeller Data					Bowl Data		
Impeller Model	12-X-180					Bowl Model	12-X
Туре	Enclosed					Connection Type	Bolted
Diameter: A=	10.030"					Outside Diameter: nominal	12.125"
B=	9.330"					minimum	11.850"
C=	8.630"					Column Pipe Size: minimum	8"
Hydraulic Thrust Factor	10.7 lbs/ft of head @ peak efficiency					maximum	10"
Impeller Weight	20.1#					Suction Pipe Size	10"
Number of Vanes	8					Shaft Size: standard	1.687"
Specific Speed (Ns)	3587					maximum	Consult Factory
Effective Eye Area	30.9 in²					Lateral: standard	1.000"
W (r sq.)	0.95 lbs -ft²					maximum	Consult Factory
Eye Fluid Velocity	0.01 ft/sec/gpm					Shaft Bearing Clearance	0.010"
Peripheral Velocity	7.68 ft/sec/inch of impeller diameter					Impeller Skirt Clearance	0.015"
						Maximum Sphere Size	0.800"
Efficiency Cor	Efficiency Correction for Impeller Data					*Maximum Head @ 1.0 s.g.:	
Number of Stages	1	2	3	4	5+	with nominal outside dia.	693 ft
Deduct No. Points	4	3	2	1	0	with minimum outside dia.	530 ft

Lengths		Operational	
Column Adapter	1.500"	Minimum Required Submergence	Consult Factory
Discharge Case	4.750"	Standard Construction	Materials
Bowl	10.000"	Bowl	A48-30 c.i. (porcelain)
Suction Case	11.500"	Impeller	C83800 br.
Suction Bell	9.500"	Bowl Shaft	416 stainless steel
Submersible Motor Adapter	Consult Factory	Shaft Coupling	C1215 steel
Approximate Shippir	ng Weights	Lock Collet	C1215 steel
First Stage	261#	Cap Screw	grade 5
Additional Stage	97#	Bowl Bearing	C93200 br./buna-N A40
		Suction/Submersible Motor Adapter Bearing	C93200 br.
Miscellaneo	us	Throttle Bearing	C93200 br.
Hub Projection on Bell Suction	2.000"	Sand Collar	C93200 br.
Cable Guard Height	0.500"	Column Adapter/Discharge Case/Suction Case	A48-30 c.i.
Distance from Impeller Eye to	7.875"	Submersible Motor Adapter	A48-30 c.i.
Bottom of Bell Suction	7.570	Tube Adapter	cl. 65-45-12 ductile iron

^{*} Not valid for submersible applications -- o-rings required if the maximum operating head will exceed 500'